Author Index of Volume 45

Allmendinger, Th., 93
Anbuchezian, M., 177
Andrieu, X., 161
Andriiko, A.A., 303
Arbizzani, C., 161
Arof, A.K., 255

Balasubramanian, R., 177
Baojia, X., 105
Basumallick, I.N., 237, 243
Becker-Roes, D., 55
Bhatt, D.P., 177
Bolwin, K., 187

Cao, X., 169
Černý, J., 267
Chattaraj, A.P., 237
Chelali, N., 209
Chen, P.-H., 73
Cheng, M., 43
Culpin, B., 365

Danilov, V.G., 7, 21, 25
Delmas, C., 281
Demourgues-Guerlou, L., 281
Dillon, R., 311

Geping, Y., 105
Goodenough, J.B., 291
Gosden, D.F., 61
Guitton, J., 209
Guo, Y., 131
Guoqi, L., 105

Hasler, Ph., 93
Hays, C.C., 291
Hosking, D., 111
Hua, S., 131
Huang, C., 169

Ishikawa, M., 229

Jindra, J., 55, 267, 325

Kaimakis, T., 219
Kazacos, M., 29
Kedrinsky, I.A., 21, 25
Kiros, Y., 219
Koop, M.J., 365
Koshechko, V.G., 1
Kozlov, A.A., 25
Krylov, V.A., 1
Kuz'minskii, Ye.V., 303

Licht, S., 311
Lim, H.S., 195
Lindström, O., 219
Liu, L., 15
Liu, Z., 15

Manoharan, R., 291
Marincic, N., 343
Mastragostino, M., 161
Matsuda, Y., 229
Meneghello, L., 161
Menictas, C., 43
Micka, K., 267
Morrison, M.M., 343
Mu, S., 153
Mukherjee, A., 243
Muniyandi, N., 119
Musilová, M., 325

Noel, M., 139

Padeste, C., 29
Passerini, S., 333
Pengfei, S., 105
Peramunage, D., 311
Perone, S.P., 73
Pitchumani, S., 119
Pokhodenko, V.D., 1
Prout, L., 353

Rand, D.A.J., 365
Rosolen, J.M., 333

Sathyanarayana, S., 247
Scrosati, B., 333
Shi, P., 169
Shibli, S.M.A., 139
Shilkin, V.I., 7
Shmydko, I.I., 21, 25
Sivozhelezova, N.B., 21
Skyllas-Kazacos, M., 29, 43
Spindler, W., 73
Suresh, M.S., 247

Udhayan, R., 177

Vasudevan, S., 119
Venkatesan, V.K., 177
Vicédo, T., 161
Vishnu Kamath, P., 263

Wang, Y., 153
Wang, Z., 131
Wen, S.-Q., 229

Yang, N., 169
Yao, Q., 15
Ye, J., 153

Zelter, G.R., 195
Zhong, S., 29
Zhukova, S.A., 21
Zorina, A.R., 25

Journal of Power Sources, 45 (1993) 381–385

Subject Index of Volume 45

Addition agent
  a new type of nonpoisonous addition agent for substituting mercury in zinc/manganese dry cells, 169
Alkaline fuel cells
  a novel Pd–Ag membrane anode for alkaline fuel cells suitable for CO_2-containing hydrogen, 93
  cobalt and cobalt-based macrocycle blacks as oxygen-reduction catalysts in alkaline fuel cells, 219
Aluminium
  studies on the anodic behavior of aluminum electrodes in alkaline solution, 105
Aluminium/air batteries
  metallized graphite as an improved cathode material for aluminium/air batteries, 243
Aluminium/sulfur batteries
  investigation of a novel aqueous aluminum/sulfur battery, 311
Anodes
  studies on the anodic behavior of aluminum electrodes in alkaline solution, 105

Batteries
  battery requirements for electric vehicles, 61
Bismuth
  a guide to the influence of bismuth on lead/acid battery performance, 365

Carbon
  development and evaluation of platinum–ruthenium bimetal catalyst-based carbon electrodes for hydrogen/oxygen fuel cells in NaOH media, 139
  a rechargeable $Zn/ZnCl_2$, NH_4Cl/polyaniline/carbon dry battery, 153
  plasticized carbon electrodes of interest for lithium rocking chair batteries, 333
Cathode materials
  new electrolytes and polymer cathode materials for lithium batteries, 1
  lead dioxides as cathodic materials for lithium polymer cells, 209
  metallized graphite as an improved cathode material for aluminium/air batteries, 243
Cathodes
  optimization of the composition of solid-phase cathodes for lithium systems with nonaqueous electrolyte, 21
Charging
  aspects of lead/acid battery technology 5. Dry charging of formed negative plates, 353
Chemical power sources
  thermal efficiency of electrochemical systems. Thermal self-destruction of highly energy-intensive lithium power sources, 303
1-Chloro-2,4-dinitrobenzene
  performance characteristics of chloro-substituted dinitrobenzene for magnesium reserve batteries, 119
Cobalt
  cobalt and cobalt-based macrocycle blacks as oxygen-reduction catalysts in alkaline fuel cells, 219
Copper
  optimization of the composition of solid-phase cathodes for lithium systems with nonaqueous electrolyte, 21
Corrosion of negative grid
  a study of the corrosion of negative-plate lead–antimony lugs in lead/acid batteries, 131

Electric vehicles
  battery requirements for electric vehicles, 61
Electrode potentials
  oscillations of electrode potentials in sealed lead/acid cells, 325
Electrodes
  comparison of the physical, chemical and electrochemical properties of rayon- and polyacrylonitrile-based graphite felt electrodes, 29

studies on the anodic behavior of aluminum electrodes in alkaline solution, 105
development and evaluation of platinum–ruthenium bimetal catalyst-based carbon electrodes for hydrogen/oxygen fuel cells in NaOH media, 139
temperature dependence of hydrogen evolution reaction on nickel oxide electrode in sealed nickel/cadmium cells, 247
on the need for a rational nomenclature for the nickel hydroxide electrode, 263
plasticized carbon electrodes of interest for lithium rocking chair batteries, 333

Graphite
comparison of the physical, chemical and electrochemical properties of rayon- and polyacrylonitrile-based graphite felt electrodes, 29

Hydrogen/oxygen fuel cells
development and evaluation of platinum–ruthenium bimetal catalyst-based carbon electrodes for hydrogen/oxygen fuel cells in NaOH media, 139
Hydrogen-evolution reaction
temperature dependence of hydrogen evolution reaction on nickel oxide electrode in sealed nickel/cadmium cells, 247
Hydrogen-permeable membrane
a novel Pd–Ag membrane anode for alkaline fuel cells suitable for CO_2-containing hydrogen, 93
Hydrogen reactions
methanol oxidation and hydrogen reactions on NiZr in acid solution, 291

Impedance measurement
impedance measurements on porous zinc electrodes operating under starved electrolyte conditions, 55
Iodine
factors affecting the internal resistance of silver/silver molybdate/iodine cells, 255
Ionic association
ionic association of lithium salts in propylene carbonate/1,2-dimethoxyethane mixed systems for lithium batteries, 229
Ionic conductivity
electrochemical characterization of new conducting polymer electrolytes, 161
Iron
incorporation mechanism for doping of metal ions into a passivating film at the lithium/thionyl chloride interface, 7
optimization of the composition of solid-phase cathodes for lithium systems with nonaqueous electrolyte, 21
structure and properties of precipitated nickel–iron hydroxides, 281
Iron electrodes
comparative study of porous iron electrodes, 267

Lead/acid batteries
developments in lead/acid stationary batteries, 111
a study of the corrosion of negative-plate lead–antimony lugs in lead/acid batteries, 131
aspects of lead/acid battery technology 5. Dry charging of formed negative plates, 353
a guide to the influence of bismuth on lead/acid battery performance, 365
Lead/acid cells
oscillations of electrode potentials in sealed lead/acid cells, 325
Lead/acid peak-shaving batteries
prediction of individual cell performance in a large lead/acid peak-shaving battery, 73
Lead–antimony alloys
a study of the corrosion of negative-plate lead–antimony lugs in lead/acid batteries, 131
Lead dioxide
lead dioxides as cathodic materials for lithium polymer cells, 209
Lithium
incorporation mechanism for doping of metal ions into a passivating film at the lithium/thionyl chloride interface, 7
optimization of the composition of solid-phase cathodes for lithium systems with nonaqueous electrolyte, 21

Lithium batteries
new electrolytes and polymer cathode materials for lithium batteries, 1
experimental studies of ultra-thin lithium batteries, 15
ionic association of lithium salts in propylene carbonate/1,2-dimethoxyethane mixed systems for lithium batteries, 229
improved conducting polymer cathodes for lithium batteries, 237
plasticized carbon electrodes of interest for lithium rocking chair batteries, 333
studies in lithium oxyhalide cells for downhole instrumentation use of lithium tetrachlorogallate electrolyte in $Li/SOCl_2$ cells, 343
Lithium cells
polycarbofluorides for lithium sources of current with nonaqueous electrolyte, 25
lead dioxides as cathodic materials for lithium polymer cells, 209
Lithium cycleability
electrochemical characterization of new conducting polymer electrolytes, 161

Macrocycle blacks
cobalt and cobalt-based macrocycle blacks as oxygen-reduction catalysts in alkaline fuel cells, 219
Magnesium
performance characteristics of chloro-substituted dinitrobenzene for magnesium reserve batteries, 119
Magnesium perchlorate
cyclic voltammetric study of quinone–hydroquinone organic system in aqueous magnesium perchlorate electrolyte, 177
Mercury
a new type of nonpoisonous addition agent for substituting mercury in zinc/manganese dry cells, 169
Metallized graphite
metallized graphite as an improved cathode material for aluminium/air batteries, 243
Methanol oxidation
methanol oxidation and hydrogen reactions on NiZr in acid solution, 291
Molybdenum
factors affecting the internal resistance of silver/silver molybdate/iodine cells, 255

Multivariate analysis
prediction of individual cell performance in a large lead/acid peak-shaving battery, 73

Negative-plate lug
a study of the corrosion of negative-plate lead–antimony lugs in lead/acid batteries, 131
Nickel
methanol oxidation and hydrogen reactions on NiZr in acid solution, 291
Nickel/cadmium cells
temperature dependence of hydrogen evolution reaction on nickel oxide electrode in sealed nickel/cadmium cells, 247
Nickel/hydrogen cells
lightweight nickel electrodes for nickel/hydrogen cells, 195
Nickel hydroxide
on the need for a rational nomenclature for the nickel hydroxide electrode, 263
structure and properties of precipitated nickel–iron hydroxides, 281
Nickel oxide
temperature dependence of hydrogen evolution reaction on nickel oxide electrode in sealed nickel/cadmium cells, 247
Nomenclature
on the need for a rational nomenclature for the nickel hydroxide electrode, 263

Palladium
a novel Pd–Ag membrane anode for alkaline fuel cells suitable for CO_2-containing hydrogen, 93
Passivating layers
incorporation mechanism for doping of metal ions into a passivating film at the lithium/thionyl chloride interface, 7
Plates
aspects of lead/acid battery technology 5. Dry charging of formed negative plates, 353
Platinum
development and evaluation of platinum–ruthenium bimetal catalyst-based carbon electrodes for hydro-

gen/oxygen fuel cells in NaOH media, 139
Polyacrylonitrile (PAN)
comparison of the physical, chemical and electrochemical properties of rayon- and polyacrylonitrile-based graphite felt electrodes, 29
Polyaniline
a rechargeable $Zn/ZnCl_2$, NH_4Cl/polyaniline/carbon dry battery, 153
Polycarbofluorides
polycarbofluorides for lithium sources of current with nonaqueous electrolyte, 25
Polymer cathodes
improved conducting polymer cathodes for lithium batteries, 237
Polymer electrolytes
electrochemical characterization of new conducting polymer electrolytes, 161
lead dioxides as cathodic materials for lithium polymer cells, 209
Polymers
new electrolytes and polymer cathode materials for lithium batteries, 1
Propylene carbonate
ionic association of lithium salts in propylene carbonate/1,2-dimethoxyethane mixed systems for lithium batteries, 229

Quinone–hydroquinone redox system
cyclic voltammetric study of quinone–hydroquinone organic system in aqueous magnesium perchlorate electrolyte, 177

Rayon
comparison of the physical, chemical and electrochemical properties of rayon- and polyacrylonitrile-based graphite felt electrodes, 29
Rechargeable dry battery
a rechargeable $Zn/ZnCl_2$, NH_4Cl/polyaniline/carbon dry battery, 153
Redox flow battery
evaluation of an NH_4VO_3-derived electrolyte for the vanadium-redox flow battery, 43
Regeneration fuel cells
performance goals in RFC development for low earth orbit space missions, 187
Resistance
factors affecting the internal resistance of silver/silver molybdate/iodine cells, 255
Rocking chair batteries
plasticized carbon electrodes of interest for lithium rocking chair batteries, 333
Ruthenium
development and evaluation of platinum–ruthenium bimetal catalyst-based carbon electrodes for hydrogen/oxygen fuel cells in NaOH media, 139

Self-destruction
thermal efficiency of electrochemical systems. Thermal self-destruction of highly energy-intensive lithium power sources, 303
Silver
a novel Pd–Ag membrane anode for alkaline fuel cells suitable for CO_2-containing hydrogen, 93
factors affecting the internal resistance of silver/silver molybdate/iodine cells, 255
Solid-phase cathodes
optimization of the composition of solid-phase cathodes for lithium systems with nonaqueous electrolyte, 21
Space
performance goals in RFC development for low earth orbit space missions, 187
Starved electrolyte conditions
impedance measurements on porous zinc electrodes operating under starved electrolyte conditions, 55

Thionyl chloride
incorporation mechanism for doping of metal ions into a passivating film at the lithium/thionyl chloride interface, 7
studies in lithium oxyhalide cells for downhole instrumentation use of lithium tetrachlorogallate electrolyte in $Li/SOCl_2$ cells, 343
Titanium
incorporation mechanism for doping of metal ions into a passivating film at the lithium/thionyl chloride interface, 7

Ultra-thin lithium batteries
experimental studies of ultra-thin lithium batteries, 15

Valve-regulated lead/acid batteries (VRB)
developments in lead/acid stationary batteries, 111
Vanadium
evaluation of an NH_4VO_3-derived electrolyte for the vanadium-redox flow battery, 43

Zinc/manganese cells
a new type of nonpoisonous addition agent for substituting mercury in zinc/manganese dry cells, 169
Zinc electrode
impedance measurements on porous zinc electrodes operating under starved electrolyte conditions, 55
Zirconium
methanol oxidation and hydrogen reactions on NiZr in acid solution, 291